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CAA-E

000001



Action Log Report

Page 1 of 9

Report Date:

2019/09/10

Receive Date:

2014/11/14

Description: From:

Note to File

Activity:

ğ

Status has changed from: Active To Completed

Document Date:

Action ID No.: Action Date:

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River

14-HCAA-01784

PATH File No:

Habitat File No:

3 October 03, 2017

Action:

By: Taskey, Lorraine

No Change/No Action Required for this Activity

Included in List of Records: Compensation/Offsetting: Expiry Date - Other:

Species at Risk:

Expiry Date - HADD/Serious Harm.

Effective Date:

Time Spent (Hrs): Authorization Rationale:

0.00

Fisheries & Oceans
Peches et Océans

Correspondence - Do not go to Macro Access Screen

Klukas, Martin Boyter, Dana

December 03, 2014

Document Date:

Action ID No.: Action Date:

Description:

From: ğ

Activity:

Sent: December 3, 2014 10:10 AM From: Fisheries Protection

To: Klukas, Martin

Subject: RE: DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

Martin,

fish and fish habitat. Or standard procedure is to access our Fisheries Protection Program website and The project sounds pretty straight forward and as you have detailed would likely have minimal impact to do a Self-Assessment. If needed then a Request for Review form can be submitted for DFO review. However, I think your project would be covered under Self-Assessment under:

 Drainage, Flooding and Erosion Control, Stormwater and Wastewater Management Project activities and criteria where DFO review is not required Water Outfalls

Construction of, and repairs to, water outfalls

No temporary or permanent increase in existing footprint below the High Water Mark

No new temporary or permanent fill placed below the High Water Mark

that support fish that are part of or that support a commercial, recreational or Aboriginal fishery. Following Minister of Fisheries and Oceans Canada. This applies to work being conducted in or near waterbodies The Fisheries Act requires that projects avoid causing serious harm to fish unless authorized by the the measures to avoid harm will help you comply with the Act.

We request that you visit our website at www.dfo-mpo.gc.ca/habitat and undertake a Self-Assessment to determine if DFO needs to review your project.



Habitat File No:

If your project IS NOT in one of the listed waterbody types, and its activities ARE NOT listed, nor does it meet the associated criteria (if applicable), you may submit a Request for Review to DFO before proceeding further.

If you are UNSURE about whether your project requires DFO review, you can seek support from a qualified environmental professional.

Any more questions or concerns please contact me.

Thank you

Dana.Boyter@dfo-mpo.gc.ca <mailto:Dana.Boyter@dfo-mpo.gc.ca> Fisheries Protection Biologist Dana Boyter

905 336-6298

Fisheries and Oceans Canada has changed the way new project proposals (referrals), reports of potential "isheries Act violations (occurrences) and information requests are managed in Central and Arctic Region habitat, please submit to fisheriesprotection@dfo-mpo.gc.ca <mailto:fisheriesprotection@dfo-mpo.gc.ca>. Alberta, Saskatchewan, Manitoba, Ontario, Nunavut and the Northwest Territories). Please be advised where you have determined, following self-assessment, that you cannot avoid impacts to fish and fish self-assessment tools that enable you to determine Fisheries Act requirements are available at DFO's <http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>. For all occurrence reports, or project proposals that general information regarding the management of impacts to fish and fish habitat and Working Near Water" website at www.dfo-mpo.gc.ca/pnw-ppe/Index-eng.html For general inquiries you can also call 1 855 852-8320.

PATH File No:

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River 14-HCAA-01784

Habitat File No:

Receive Date:

2014/11/14

From: Hoggarth, Thomas

Sent: November 18, 2014 7:40 AM

To: Fisheries Protection; Klukas, Martin Cc. Thomas, Jennifer

Subject: FW: DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

Martin

have forwarded your request to our triage group for action.

C. Thomas Hoggarth

Thomas.Hoggarth@dfo-mpo.gc.ca <mailto:Thomas.Hoggarth@dfo-mpo.gc.ca> Phone 905 336-4764

Cell 905 220-4836

From: Klukas, Martin [<mailto:martin.klukas@cnl.ca>] Sent: November 14, 2014 4:09 PM

To: Hoggarth, Thomas

Cc: Gallagher, Christine; Bauer, Gerald; Winter, Anthony

Subject: DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

Thomas:

Christine Gallagher of Chalk River Laboratories, whom you met last week at the COG workshop, provided me with your contact information.

We would like to discuss with DFO the review/approvals required for the rehabilitation of the Sanitary Sewage Outfall Drain at the Chalk River Laboratories Site.



1 SINC.	water outrall, Chark Kiver Labora	aiories (AECL), Ottawa Kiver, Deep Kiver		Receive Date:	2014/11/14
CH File No:	14-HCAA-01784	Habitat Mis XX	4		

installation of a new liner into the existing pipe. A description of the installation process is provided below, A schematic showing the location of the pipe are attached. The process will have minimum impact on the is a 300 mm diameter corrugated steel pipe that is severely deteriorated. The outfall restoration involves The Sanitary Sewer outfall extends approximately 90 m into the Ottawa River. The existing outfall drain river bed.

Please advise if you are available to discuss DFO review/approvals for the Outfall Drain Rehabilitation. not, could you point us to the correct DFO contact.

Thanks

Martin Klukas, Environmental Analyst, Environmental Protection Branch, Canadian Nuclear Laboratories. Martin.Klukas@CNL.ca <mailto:Martin.Klukas@CNL.ca> Tel613 584 8811ext 46400

OUTFALL DRAIN REHABILITATION

The following provides a summary of the proposed works for the Outfall Drain at the Chalk River CNI. Site. The following provides a brief summary of the existing outfall drain.

- diving and topographical survey technologies were completed (as much as possible) confirming the pipe's and is in need of imminent repair. In December 2013, a site investigation consisting of CCTV, in water The existing pipe is a 300mm diameter corrugated steel pipe (CSP) that is severely deteriorated
- The pipe starts at access structure 4D-11 and runs east into the Ottawa River where it discharges the treated sanitary sewage.
 - The pipe is 153.9m long. 46.6m from structure 4D-11 is another structure (4D-12).
- About 65m of the outfall drain is located on land (maximum depth is 4.5m), with the remaining

14-HCAA-01784

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River

Habitat File No:

Receive Date:

2014/11/14

88.9m buried under the river bed, below the water surface. The outlet does not have a diffuser.

Structure 4D-12 will be removed and a new structure built at the same location. This will require some shrub removal, excavation and building of a precast concrete structure segments, 1200mm diameter. All on land. The ground will be restored with topsoil and seed and mulch. Proposed work for Outfall Drain Rehabilitation:

A new structure will be installed about 15m downstream of structure 4D-11. This is required for the excavating at this location to about a 3 m depth, and a new precast concrete structure installed. Ground new tie in point for the new sanitary sewage treatment plant discharge. This will be completed by will be restored with topsoil and either sodding or seed and mulch.

water/steam. No compounds will be allowed to be released into the Ottawa River. All would be collected From structure 4D-11to 4D-12, this section will be lined with a Cured-in-Place Liner by inserting at disposed of appropriately. The curing of the liner will be done either by using a UV light train or heated operation will be removed, all done from within the pipe, collected from structure 4D-11 or 4D-12 and 4D-11and moving towards 4D-12. The CSP will be cleaned and any items that will impact the liner at the structures and disposed of appropriately.

be set up in structure 4D-12. The pipe bursting machine will be pulled through the existing CSP cutting it open to a size just enough to allow the new 300mm HDPE pipe to be inserted. This will all happen at the From structure 4D-12 to the outlet in the Ottawa River, this will be completed by pipe bursting. The HPDE pipe is attached directly to the pipe bursting machine, thus the insertion is completed in one pass. bursting machine will have some river bed impact but in a very small area. The 300mm diameter HDPE first step will require the placement of a stringer (small line inside the CSP) that will be used to attach a pipe bursting machine will be set up at the outlet drain outlet point. The winch or pulling mechanism wil same fime. The pipe bursting machine will be pulled from the outlet point back to structure 4D-12, the nsertion. A barge will be set up to assist in the pipe bursting operation. With the assist of divers, the method. Directly at the outfall drain outlet point, the divers and insertion of the 300mm diameter pipe No disruption to the river bed will occur along the alignment of the outfall drain underwater using this pulling cable for the pipe bursting machine when ready for insertion. The intent is to install a 300mm diameter HDPE pipe inside the 300mm diameter CSP. The HDPE pipe will be fused together into a 107.3 m long piece on land and then floated out to the Outfall Drain outlet point when ready for the yipe would remain on the water surface until inserted into the 300mm CSP. 00000

2014/11/14

Receive Date:

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River

14-HCAA-01784

PATH File No:

Action:

Habitat File No:

Expiry Date - HADD/Serious Harm: Expiry Date - Other:

Effective Date:

Triage - Web Self-Assessment Can be Used

0.00

Time Spent (Hrs): Authorization Rationale:

Habitat Management

Included in List of Records: Species at Risk: Warning, Information in PATH may be private and/or sensitive and should not be shared without appropriate consultation and/or permission. Refer to the Data and System Security section of the PATH Helpfiles for details. Compensation/Offsetting



Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River 14-HCAA-01784 PATH File No:

Habitat File No:

Receive Date:

2014/11/14

Activity:

Correspondence - Do not go to Macro Access Screen

Document Date: Action ID No.: Action Date:

November 14, 2014

Jescription:

From: ď

From: Klukas, Martin [<mailto:martin.klukas@cni.ca>]

Sent: November 14, 2014 4:09 P.M. To: Hoggarth, Thomas

Oc. Gailagher, Christine; Bauer, Gerald; Winter, Anthony Subject DFO Reviews/Approvals for Outfall Drain Rehabilitation at Chalk River Laboratories

Thomas:

Christine Gallagher of Chalk River Laboratories, whom you met last week at the COG workshop, provided me with your contact information.

We would like to discuss with DFO the review/approvals required for the rehabilitation of the Sanitary Sewage Outfall Drain at the Chalk River Laboratories Site. The Sanitary Sewer outfall extends approximately 90 m into the Ottawa River. The existing outfall drain is a 300 mm diameter corrugated steel pipe that is severely deteriorated. The outfall restoration involves installation of a new liner into the existing pipe. A description of the installation process is provided below. A schematic showing the location of the pipe are attached. The process will have minimum impact on the river bed.

Please advise if you are available to discuss DFO review/approvals for the Outfall Drain Rehabilitation. If not, could you point us to the correct DFO Contact

Thanks

Martin Klukas

Environmental Analyst, Environmental Protection Branch, Martin Klukas@CNL.ca < melito:Martin.Klukas@CNL.ca> Canadian Nuclear Laboratories Tel 613 584 8811 ext 46400

OUTFALL DRAIN REHABILITATION

The following provides a summary of the proposed works for the Outfall Drain at the Chalk River CNL. Site. The following provides a brief summary of he existing outfall drain.

- . The existing pipe is a 300mm diameter corrugated steel pipe (CSP) that is severely deteriorated and is in need of imminent repair. In December 2013, a site investigation consisting of CCTV, in water diving and topographical survey technologies were completed (as much as possible) confirming the pipe's condition.
 - The pipe starts at access structure 4D-11 and runs east into the Ottawa River where it discharges the treated sanitary sewage.
- The pipe is 153.9m long. 46.6m from structure 4D-11 is another structure (4D-12). About 65m of the outfall drain is located on land (maximum depth is 4.5m), with the remaining 88.9m buried under the river bed, below the water Proposed work for Outfall Drain Rehabilitation: surface. The outlet does not have a diffuser,
- Structure 4D-12 will be removed and a new structure built at the same location. This will require some shrub removal, excavation and building of

Warning Information in PATH may be private and/or sensitive and should not be shared without appropriate consultation and/or permission. Refer to the Data and System Security section of the PATH Helpflies for details.

Fisheries & Oceans Pêches et Océans

Water outfall, Chalk River Laboratories (AECL), Ottawa River, Deep River Habitat File No:

Receive Date:

2014/11/14

a precast concrete shructure segments, 1200mm diameter. All on land. The ground will be restored with topsoil and seed and mulch.

A new structure will be installed about 15m downstream of structure 4D-11. This is required for the new tie in point for the new sanitary sewage. treatment plant discharge. This will be completed by excavating at this location to about a 3 m depth, and a new precast concrete structure installed

Ground will be restored with topsoil and either sodding or seed and mulch.

From structure 4D-11 to 4D-12, this section will be lined with a Curedin-Place Liner by inserting at 4D-11 and moving towards 4D-12. The CSP will be cleaned any items that will impact the liner operation will be removed, all done from within the pipe, collected from structure4D-11 or 4D-12 and disposed of appropriately. The curing of the liner will be done either by using a LV light train or heated water/steam. No compounds will be allowed to be released into the Ottawa River. All would be collected at the structures and disposed of appropriately.

From structure 4D-12 to the outlet in the Ottawa River, this will be completed by pipe bursting. The first step will require the placement of a

4D-12. The pipe busting machine will be pulled through the existing CSP cutting it open to a size just enough to allow the new 300mm HDPE pipe to be inserted. This will all happen at the same time. The pipe bursting machine will be pulled from the outlet point back to structure 4D-12, the HPDE pipe bursting machine will have some river bed impact but in a very small area. The 300mm diameter HDPE pipe would remain on the water surface stringer (small line inside the CSP) that will be used to attach a pulling cable for the pipe bursting machine when ready for insertion. The intent is to install a 300mm diameter HDPE pipe inside the 300mm diameter HDPE pipe will be fused together into a 107.3 m long piece on land and then floated out to the Outfall Drain outlet point when ready for the insertion. A barge will be set up to assist in the pipe bursting machine will be set up at the outlet drain outlet point. The winch or pulling mechanism will be set up in structure pipe is attached directly to the pipe bursting machine, thus the insertion is completed in one pass. No disruption to the river bed will occur along the alignment of the outfall drain underwater using this method. Directly at the outfall drain outlet point, the divers and insertion of the 300mm diameter until inserted into the 300mm CSP.

Effective Date: Iriage - Request for Review Form/Proxy Received

Expiry Date - HADD/Serious Harm:

Expiry Date - Other:

included in List of Records: Compensation/Offsetting

0.00

Authorization Rationale:

Time Spent (Hrs);

Action:

Species at Risk:

Fisheries & Oceans
Pethes # Oxians

15-4CAA - 00299

Habitat Management

PATH	

Action Log Report

Page 1 of 6

2019/09/10

Report Date:

Receive Date:

2015/03/13

Activity:

Note to File

Document Date: Action Date:

Action ID No.:

Habitat File No:

Hydrant Installation, Ottawa River, Rolphton, Ontario

15-HCAA-00299

PATH File No:

Title

March 24, 2015

Action:

Description:

From:

Status has changed from: Active To Completed By: Kirlluk, Rick

No Change/No Action Required for this Activity

Expiry Date - HADD/Serious Harm: Effective Date:

Included in List of Records: Compensation/Offsetting. Expiry Date - Other:

Species at Risk:

00.00

Time Spent (Hrs): Authorization Rationale:

Fisheries & Oceans
Péches et Oceans

Receive Date: Habitat File No: Hydrant Installation, Ottawa River, Rolphton, Ontario 15-HCAA-00299 PATH File No:

Correspondence - Do not go to Macro Access Screen

Activity:

Action ID No.: Action Date: Document Date:

March 24, 2015

2015/03/13

Description:

From:

From: Fisheries Protection

Sent: March-24-15 2:12 PM

To: Gallagher, Christine

Subject: RE: Request for Project Review

Dear Ms. Gallagher:

Subject: Serious harm to fish can be avoided or mitigated.

Hydrant Installation, Ottawa River, Rolphton, Ontario

DFO File #: 15-HCAA-00299

hydrant installation proposal which has been reviewed under the Fisheries Act and the Species at Risk The Fisheries Protection Program (the Program) of Fisheries and Oceans Canada received your dry

measures, and a Permit under the Species at Risk Act is not required since there are no Species at Risk Based on the information provided, your proposal has been identified as a project where a Fisheries Act near the project site. Proposals in this category are not considered to need an authorization from the authorization is not required given that serious harm to fish can be avoided by following standard Program under the Fisheries Act in order to proceed In order to comply with the Fisheries Act, it is recommended that you follow our guidance tools which can be found at the following website

(<<http://www.dfo-mpo.gc.ca/pnw-ppe/measures-mesures/index-eng.html>>). It remains your responsibility to meet the other requirements of federal, provincial and municipal agencies.

Fisheries Act, and that you meet the requirements under the Species at Risk Act as it may apply to your It remains your responsibility to ensure you avoid causing serious harm to fish in compliance with the project. Should your plans change or if you have omitted some information in your proposal such that



(<http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>), you should complete and submit the request for our proposal meets the criteria for a site specific review, as described on our website review form that is also available on the website.

serious harm to fish that are part of or support a commercial, recreational or Aboriginal fishery. Such Please be advised that it is also your Duty to Notify DFO if you have caused, or are about to cause, notifications should be directed to

<http://www.dfo-mpo.gc.ca/pnw-ppe/violation-infraction/index-eng.html>.

Should you have any questions or concerns about the compliance of your proposal with the Fisheries Act and/or those prohibitions of the Species at Risk Act that apply to listed aquatic species, you may wish to engage an environmental professional familiar with measures to avoid impacts to fish and fish habitat (<http://www.dfo-mpo.gc.ca/pnw-ppe/env-pro-eng.html>).

Yours sincerely,

Jennifer Thomas
ATeam Leader, Triage and Planning
Fisheries and Oceans Canada

Fisheries Act violations (occurrences) and information requests are managed in Central and Arctic Region Fisheries and Oceans Canada has changed the way new project proposals (referrals), reports of potential occurrence reports, or project proposals where you have determined, following self-assessment, that you www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html <http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html>. For all Alberta, Saskatchewan, Manitoba, Ontario, Nunavut and the Northwest Territories). Please be advised cannot avoid impacts to fish and fish habitat, please submit to fisheriesprotection@dfo-mpa.gc.ca self-assessment tools (e.g. Measures to Avoid Harm) that enable you to determine Fisheries Act that general information regarding the management of impacts to fish and fish habitat and <mailto:fisheriesprotection@dfo-mpo.gc.ca>. For general inquiries call 1 855 852-8320. requirements are available at DFO's "Projects Near Water" website at

Hydrant Installation, Ottawa River, Rolphton, Ontario

15-HCAA-00299

Habitat File No:

2015/03/13

From: Gallagher, Christine [<mailto:christine.gallagher@cnl.ca>]

Sent: March-13-15 2:50 PM

To: Buck, Kathleen; Hoggarth, Thomas

Cc: Morin, Annie; Baidwan, Robby, Dolinar, George; Vickerd, Meggan; Aikens, Emie; Matasich, Chris Subject: Request for Project Review

UNRESTRICTED | ILLIMITÉ

Hi Thomas and Kathleen,

Attached is a request for a project review for work that is occurring at our Rolphton, Ontario site to install a dry hydrant. Also attached are some pictures and a map of the area. The current plan is to perform this early April and the work will only take ~ 2 weeks, however, if the area is not thawed at that time it may be pushed back (hence the reason for the long construction start and end time on the review form). et us know whether this would be possible.

Regards,

Christine Gallagher

Environmental Protection Program Manager + Building 700, Room 263A, Str. 700D

(613) 584-8811ext 43203

Fax (613) 584-8232

e-mail: christine.gallagher@cnl.ca <mailto:gallagherc@aecl.ca>

Please note my new e-mail address

Triage - Regulatory Review NOT Required

Action:

0.00

Authorization Rationale:

Time Spent (Hrs):

Expiry Date - HADD/Serious Harm: Effective Date:

Expiry Date - Other:

included in List of Records: Compensation/Offsetting:

Species at Risk:

Fisheries & Oceans
Peches et Océans

2015/03/13

Description:

Action ID No.: Action Date: Correspondence - Do not go to Macro Access Screen

Habitat File No:

Document Date:

March 13, 2015

From: Gallagher, Christine [mailto:christine.gallagher@cnl.ca]

Sent: March-13-15 2:50 PM

To: Buck, Kathleen; Hoggarth, Thomas

Cc. Morin, Annie; Baidwan, Robby; Dolinar, George; Vickerd, Meggan; Aikens, Ernie; Matasich, Chris Subject: Request for Project Review

UNRESTRICTED | ILLIMITÉ

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Regards,

Christine Gallagher

Environmental Protection Program Manager

+ Building 700, Room 263A, Str. 700D

(613) 584-8811ext 43203

Fax: (613) 584-8232

e-mail: christine.gallagher@cnl.ca <mailto:gallagherc@aecl.ca>

Please note my new e-mail address



Title: PATH File No:	Hydrant Installation, Ottawa River, Rolphton, Ontario 15-HCAA-00299 Habitat File No:		Receive Date:	2015/03/13
Action:	Triage - Request for Review Form/Proxy Received	Effective Date: Expiry Date - HADD/Serious Harm:		
Time Spent (Hrs): Authorization Rationale:	00:0	Expiry Date - Other: Compensation/Offsetting Included in List of Records: Species at Risk:		
Directory: File Name: Document Type (Upload):	DFO Request for Review at NPD FFHPP - Request for Review Form	File Extension: File Size:	pdf 6,153,334	·
Directory. File Name: Document Type (Upload):	Fire Hydrant 2015 1): FFHPP - Request for Review - Supporting Documents	File Extension: File Size:	jpg 297,031	
Directory: File Name: Document Type (Upload):	DSCN0273 FFHPP - Request for Review - Supporting Documents	File Extension: File Size:	Jpg 196,086	
Directory: File Name: Document Type (Upload):	DSCN0272 FFHPP - Request for Review - Supporting Documents.	File Extension: File Size;	Jpg 105,863	





Request for Review

A) Contact information

Name of Business/Company:	Select additional contact: Contractor/Agency/Consultant (if applicable):
Canadian Nuclear Laboratories (CNL)	Contractor/Agency/Consultant (if applicable);
Name of Proponent:	
Robby Baidwan	
Mailing address:	Mailing address:
Canadian Nuclear Laboratories 286 Plant Road Mail Stn 845	
City/Town:	City/Town:
Chalk River	
Province/Territory:	Province/Territory:
Ontario	
Postal Code:	Postal Code:
K0J 1J0	
Tel. No. :	Tel. No.:
613-584-3311 ext 44708	
Fax No.:	Fax No.:
Email:	Email;
Robby.Baldwan@cnl.ca	
s the Proponent the main/primary contact? (Yes (No
f no, please enter information for the primary contact or any add	
Christine Gallagher Christine Gallagher@cnl.ca 313-584-3311 ext. 43203	

Pêches et Océans Canada

Canada

B) Description of Project

If your project has a title, please provide it.	
Installation of a dry hydrant at CNL NPD site, Rolphton,	, ON
is the project in response to an emergency circumstance	*? (Yes @ No
Does your project involve work in water?	C: No
If yes, is the work below the High Water Mark*? 6 Y	es C No
What are you planning to do? Briefly describe all project	components you are proposing in or near water.
consists of a permanently shut down, partially decomn first phase of decommissioning all water supply was re decommissioned). The water intake is necessary to sup at the facility as well as forest fires. The installation of which utilized National Building Code of Canada (NBCC (NFPA) 801 requirements. CNL contracted exp Service: piping below the hydrant to a suitable depth which will desired depth to achieve suitable water level coverage	lower Demonstration Waste Facility (NPDWF) in Rolphton, Ontario. The facility missioned demonstration CANDU reactor and associated structures. During the emoved from the facility (i.e. pump house was removed from service and oply the local fire department pumper and increase the capability of fighting fires the dry hydrant system is the result of a recent Fire Hazard Analysis assessment C), National Fire Code of Canada (NFCC) and National Fire Protection Association is Inc. to design the dry hydrant. The hydrant will consist of a vertical section of ill be connected to the river through a horizontal section of piping installed to the interest through a horizontal section of piping installed to the connected to the river through a horizontal section of piping installed to the interest fire department would utilize a portable pump to pump water from the ction of the dry hydrant system will take approximately two (2) weeks and will
	ruction materials, methods and equipment that you plan to use.
materials OPSS 1001 &1010). The dry hydrant outlet will be installed ~10m from the 150mm compacted granular A. The outlet pipe will be 150mm OD Schedule 40 steel pi strainer, rocker lug threaded plug and chain. The finished grade elevation at the dry hydrant assembrev. 4. The outlet pipe will be pre-insulated and extend vertice 20mm clear stone will be installed at the connection jo OD outlet pipe to 200mm OD for attachment of the into The intake pipe will be 16m of Schedule 40 PVC pipe (can elevation of 110m (below the 50 yr drought level est intake pipe will extend into a 600mm by 600mm concreted and couplers will be used to reduce the 200m strainer will be tied down with stainless steel clamp and will be anchored to the river bottom for strainer protect Where the dry hydrant horizontal strainer extends into under the intake, will be installed as per OPSD 810.01.	Standard Specification (OPSS) standards (i.e. construction OPSS 206 & 314 water edge at an elevation of 115.48m in the center of a 3mx3m gravel pad of ipe and will be fitted with 150mmOD X 100mmOD female NST thread, internal bly will be 114.83m. The area will be protected by bollards as per 8-5953-ST-32 ally down to an elevation of 110.95m. A drain away pit with 2 cubic meters of int to the intake pipe. Reducer and couplers will be used to increase the 150mm ake pipe. or 20m of HDPE DR21) and will be installed by excavation/trenching on a slope to tablished at 110.89m). Clear stone again will be used for the pipe bedding. The ete block at the bottom of the pipe excavation. m OD to 150mm OD for attachment of the dry hydrant horizontal strainer. The d chain fastened to a concrete weight directly below the strainer. A wire mesh ation. the river a 2mx3m rip-rap pad, with filter cloth and 150mm rock nominal size restored. The disturbed area of the riverbed will be reinstated with material
nclude a site plan (figure/drawing) showing all project com	
ve details attached? @ Yes C No	
dentify which work categories apply to your project.	
Aquaculture Operations	☐ Log Handling / Dumps
Aquatic Vegetation Removal	☐ Log Removal

Fisheries ar Canada	nd Oceans	Pêches et Océans Canada			•	Canada
☐ Beaches			☐ Moorin	as .		
☐ Berms				Vater Disposal		
☐ Blasting / Explosive	S	·	☐ Piers			
☐ Boat Houses			Section .	n Vegetation Remov	val	
☐ Boat Launches / Ra	imps		☐ Seismi		V	
☐ Breakwaters	·			ne Protection		ø
☐ Bridges			Stormy	vater Management F	acilities	
☐ Cable Crossings				Water Taking		
□ Causeways				s Impoundment Area	2S	
☐ Culverts				rary Structures	•	
☐ Dams			☐ Turbine	•		
☐ Dewatering / Pumpl	ng		☐ Water (Control Structures	•	
☐ Docks			⊠ Water I	ntakes / Fish Screer	ns	
Dredging / Excavati	on		☐ Water (
□ Dykes			☐ Watero	ourse Realignment		
☐ Fishways / Ladders			☐ Weirs	•		
☐ Flow Modification (h	ydro)		☐ Wharve	s		
☐ Groundwater Extrac	tion		☐ Wind P	ower Structures		
☐ Groynes						
☐ Habitat Restoration			EZ ALL	Slave Overthe	A	
☐ Ice Bridges			☑ Other	Please Specify	Dry hydrant for fin	a righting
Was your project submit	ted for review	v to another federal or provincial	department or	agency? (Yes	@ No	
If yes, indicate to whom				- "		
C) Location of the	Droiect		ericania en esta de la compania del la compania de la compania de la compania del la compania de la compania del la c	en e		
A) Poparion of the	LINGUL				•	
Coordinates of the propo	sed project	Latitude	N	Longitude		w
OR	UTI	A zone 18T	,	294,930		Easting
				5,118,318		Northing
include a map clearly inc	licating the lo	cation of the project as well as s	urrounding fea	tures.		_
Name of Nearest Comm	unity (City, T	own, Village):	Rolphton			
Municipality, District, To	wnship, Coun	ty, Province:	Laurentian H	Ills, Ontario		
Name of watershed (if a	oplicable);		Ottawa River	Watershed	O Carlos de Carlos d La carlos de Carlos d	
Name of watercourse(s)	or waterbody	(ies) near the proposed project:	Ottawa River		ting in the state of the state	

Pêches et Océans Canada

Canada

The Nuclear Power Demonstration Waste Facility (NPDWF) site	e is located 17km north of Deep River, Ontario at 36510 Highway 17.	
D) Description of the Aquatic Environment		*****
dentify the predominant type of aquatic habitat where the projec	t will take place.	
C Estuary (Estuarine)	CLake (Lacustrine)	(●On t
Provide a detailed description of biological and physical charact	eristics of the proposed project site.	
been modified in the past allowing for limited vegetation gro The Ottawa River width at this location is 500m. Typical fish species known to be present in the Ottawa River i Perch; Lake Sturgeon; Channel Catfish; Rainbow Smelt; Cisco;	nclude: Smallmouth Bass: Largemouth Bass: Walleve: Northern Pike:	Yellow
nclude representative photos of affected area (including upstrea	m and downstream area) and clearly identify the location of the project.	
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http://www.com/documents/	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html);	isaninistrikisi taniyisisinini saga
E) Potential Effects of the Proposed Project	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html);	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http://lescribe.the.type.of.cause-effect relationships that apply to your	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html);	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http://escribe the type of cause-effect relationships that apply to your Project.	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html);	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http://escribe.the.type.of.cause-effect relationships that apply to your Pres Control No	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) t project?	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http://escribe the type of cause-effect relationships that apply to your Project. Yes No yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? ☑ Placement of material or structures in water	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http lescribe the type of cause-effect relationships that apply to your Yes No if yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? I Placement of material or structures in water I Riparian Planting	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http lescribe the type of cause-effect relationships that apply to your Ves No i yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging Excavation	c://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? Placement of material or structures in water Riparian Planting Streamside livestock grazing Structure removal Use of explosives	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http lescribe the type of cause-effect relationships that apply to your Yes No yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging Excavation Fish passage issues	o://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? Placement of material or structures in water Priparian Planting Streamside livestock grazing Structure removal Use of explosives Use of industrial equipment	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http escribe the type of cause-effect relationships that apply to your escribe the type of cause-effect relationships that apply to your yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging Excavation Fish passage issues Grading	c://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? Placement of material or structures in water Riparian Planting Streamside livestock grazing Structure removal Use of explosives Use of industrial equipment Vegetation Clearing	iden filologija (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria) in kalendaria (kalendaria)
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Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http lescribe the type of cause-effect relationships that apply to your Yes No i yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging Excavation Fish passage issues Grading Marine seismic surveys Organic debris management	c://www.dfo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? Placement of material or structures in water Riparian Planting Streamside livestock grazing Structure removal Use of explosives Use of industrial equipment Vegetation Clearing	
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http lescribe the type of cause-effect relationships that apply to your Yes No yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging Excavation Fish passage issues Grading Marine seismic surveys Organic debris management Placement of marine finfish aquaculture site	Zi/www.difo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? ☐ Placement of material or structures in water ☐ Riparlan Planting ☐ Streamside livestock grazing ☐ Structure removal ☐ Use of explosives ☐ Use of industrial equipment ☐ Vegetation Clearing ☐ Wastewater management ☑ Water extraction	isaninistrikisi taniyisisinini saga
E) Potential Effects of the Proposed Project lave you reviewed the Pathways of Effects (PoE) diagrams (http lescribe the type of cause-effect relationships that apply to your very eyes. No if yes, select the PoEs that apply to your project. Addition or removal of aquatic vegetation Change in timing, duration and frequency of flow Cleaning or maintenance of bridges or other structures Dredging Excavation Fish passage issues Grading Marine seismic surveys Organic debris management	Zi/www.difo-mpo.gc.ca/pnw-ppe/pathways-sequences/index-eng.html) to project? ☐ Placement of material or structures in water ☐ Riparlan Planting ☐ Streamside livestock grazing ☐ Structure removal ☐ Use of explosives ☐ Use of industrial equipment ☐ Vegetation Clearing ☐ Wastewater management ☑ Water extraction	ise para kylikisti ili daga kata aki ya ay

Fisheries and Oceans

Pêches et Océans

If Yes, include a list of the guidelines being used to avoid negative effects to fish and fish habitat.

In accordance with best management practices for erosion and sediment control, turbidity curtains, silt fences and strawable check dams shall be installed. Construction and maintenance requirements for erosion and sediment control comply with OPSS 805.

Are there any relevant best practices or mitigation measures that you are unable to incorporate? Yes No

(If yes, identify which ones.)

Timing - Contractors are prepared to begin the installation of the dry hydrant system once the ground thaws from winter (early April

	Fisheries and Oceans Canada	Pâches et Océans Canada	Canada
2015).	arriad Pauco de la Migration manuschi de Arrivol de Migration programmi de Arrivol e montre de Arrivol de Arri	katingin musuugana kan ka samma sahagamadoo in kuninkoodanayin middii waaniin digabaa.	
	follow appropriate Timing High Water Mark*?	Windows (http://www.dfo-mpo.gc.o	a/pnw-ppe/timing-periodes/index-eng.html) for all your project activities
C Yes	€ No		•
(If no, pr	ovide explanations.)		
NFPA rewith CNI dry hydras soon a commitre	gulations. The facility un i. staff and contractors pe ant installed has definite as the ground thaws (like ments (as part of a fire ha ans to CNL's compliance	derwent a period of cold, dark an informing work on a regular basis by increased as a result of the occ by April 2015). Completion of thi zard analysis) assigned to CNL as	the fire safety of the facility in order to comply with NBCC, NFCC and diquiet (unoccupied) for many years, but the facility is now occupied (often with hazardous materials). The urgent safety need to have this upancy at the facility. Contractors are standing by to install the system is project also meets Canadian Nuclear Safety Commission license the licensee of this Class I Nuclear Facility. Due to the safety needs, dithe fact that the footprint of this project is relatively small, CNL is
What res	idual effects to fish and fi	sh habitat do you foresee after tak	ng into account the avoidance and mitigation measures described
	ropriate avoidance and n ual effects anticipated as		luring the construction of the NPDWF dry hydrant system. There are
F) Sign	ature	Bengara and an annual and an annual and an annual and an	
I, Christin	ne Gallagher	(print name) certify that the infor	mation given on this form is to the best of my knowledge, correct and completed.
		·	

Information about the above-noted proposed work or undertaking is collected by DFO under the authority of the Fisheries Act for the purpose of administering the fisheries protection provisions of the Fisheries Act. Personal information will be protected under the provisions of the Privacy Act and will be stored in the Personal information Bank DFO-PPU-680. Under the Privacy Act, Individuals have a right to, and on request shall be given access to any personal information about them contained in a personal information bank. Instructions for obtaining personal information are contained in the Government of Canada's Info Source publications available at www.infosource.gc.ca or in Government of Canada offices. Information other than "personal" information may be accessible or protected as required by the provision of the Access to Information Act.

13/03/2015

Signature

^{*}All definitions are provided in Section G of the Guidance on Submitting a Request for Review

Fisheries and Oceans

Pêches et Océans Canada Canada

Guidance on Submitting a Request for Review

This document explains the requirements for a Request for Review by DFO under the fisheries protection provisions of the Fisheries Act. To determine whether you should request a review, follow the steps for proponent Self-Assessment on DFO's Projects Near Water webpage (http://www.dfo-mpo.gc.ca/pnw-ppe/index-eng.html).

Incomplete Requests for Review will be returned to the applicant without review by DFO. All information requested must be provided. If you attach documents to your application with additional information, you must still provide appropriate summaries in the spaces provided on the application document or your application will be considered incomplete.

Section A: Contact Information

Provide the full legal name of the proponent and primary mailing address for the proponent. When the proponent is a company, identify the full legal registered name of the company.

If applicable, also provide the contact information of the duly authorized representative of the proponent. Please note that a copy of correspondence to Contractor/Agency/Consultant will also be sent to the Proponent.

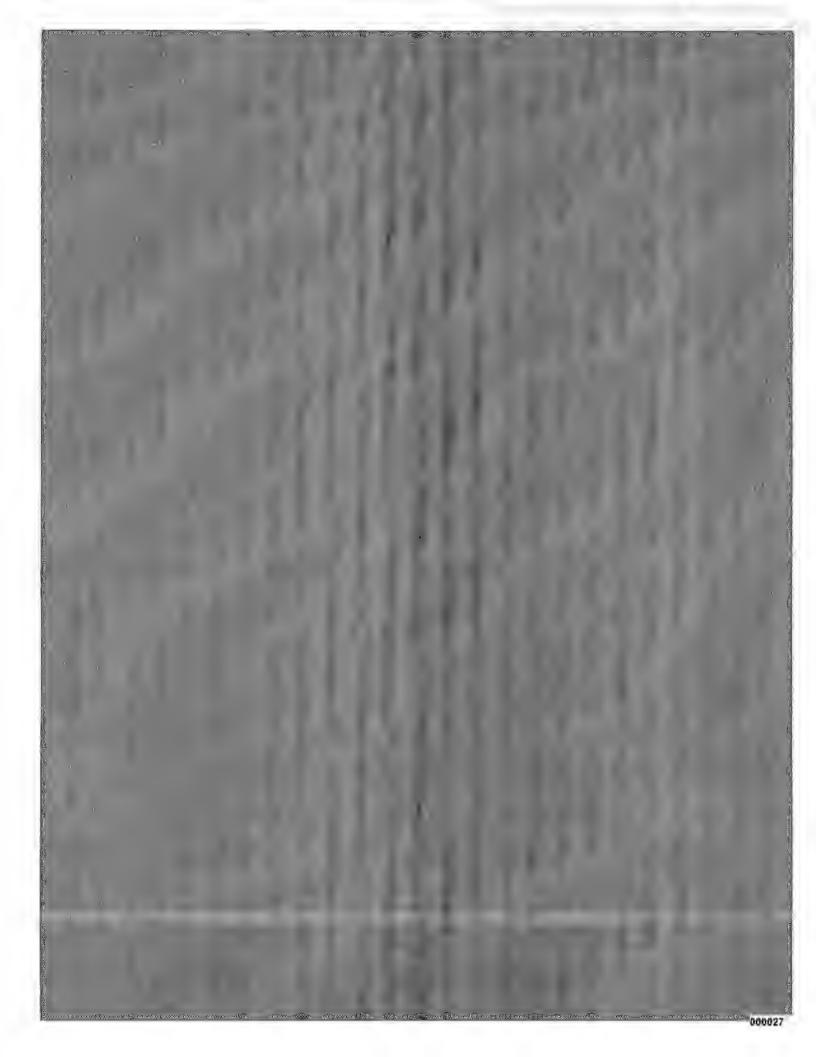
Section B: Description of Project

This information is meant to provide background about the proposed project. All components of the proposed project in or near water, must be described.

Proponents should provide information about all appropriate phases of the project, i.e., the construction, operation, maintenance and closure phases for the proposed project.

All details about the construction methods to be used, associated infrastructure, permanent and temporary structures, building materials to be used, machinery and equipment to be used must also be provided. For example, the construction of permanent structures may require the construction of temporary structures such as temporary dikes, in conjunction with other associated activities like the withdrawal of water, land clearing, excavation, grading, infilling, blasting, dradging, installing structures, draining or removing debris from water. Similarly, the equipment and materials to be used may include hand tools, backhoes, gravel, blocks or armor stone (provide the average diameter), concrete (indicate if pre-cast or poured in-water), steel beams or wood.

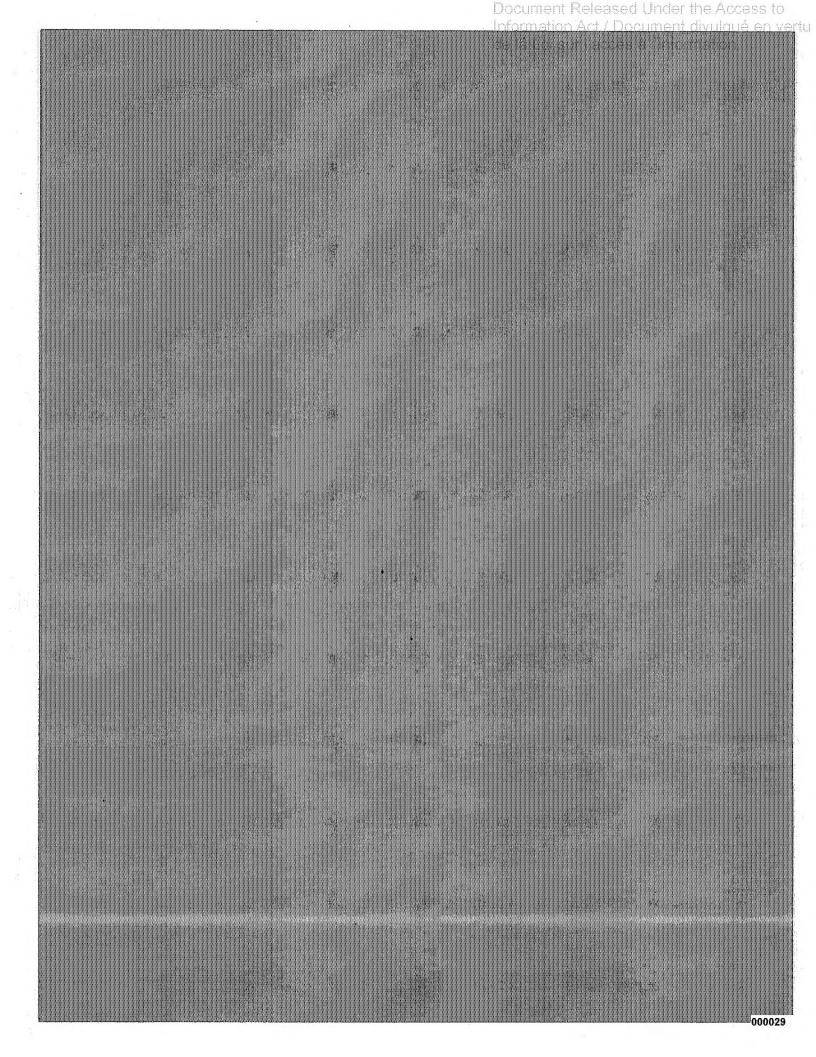
When physical structures in or near water are proposed, provide the plan and specifications of those works which would require a review.



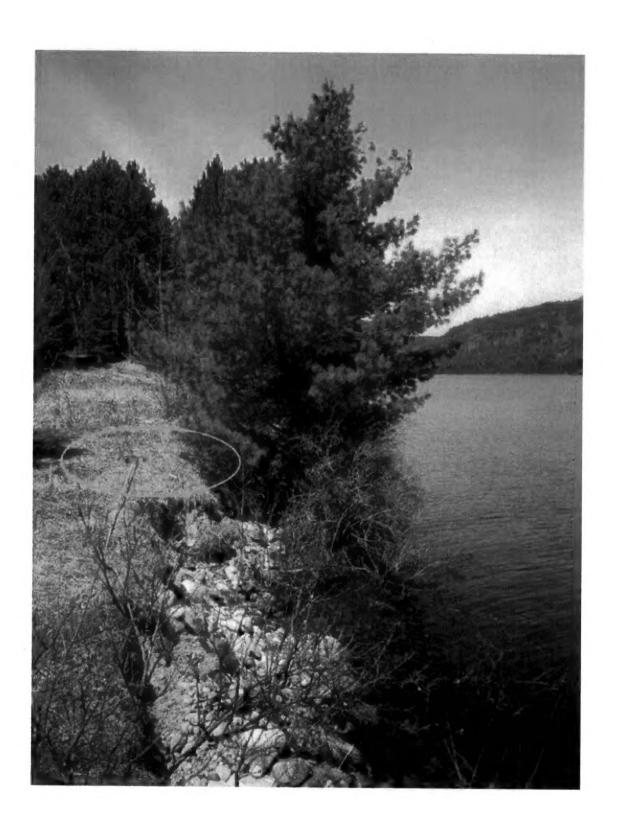
Water Intake

Dry Fire Hydrant

Shoreline Characterization Survey



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